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SUBSTITUTE SPECIFICATION

COMMUNICATION NETWORK

Background of the Invention

Field of the Invention

[0001] This invention relates to a communication network, in particular a communication network for dynamically allocating channels.

Description of the Prior Art

[0002] The popularity of cellular communication is, in part, due to its ability to allow a relatively large number of users to establish communication links over a relatively limited bandwidth. However, as the popularity of cellular communication continues to increase, the demands for increased capacity continue.

[0003] Time Division Multiple Access (TDMA) cellular communication systems increase capacity by splitting a carrier frequency into a plurality of timeslots, thereby allowing a plurality of communication channels to be established over the same carrier frequency.

[0004] To allow speech data to be transmitted in a timeslot, the speech data is compressed using a codec.

[0005] To further increase capacity certain TDMA standards, for example GSM, allow the use of a half rate codec. The half rate codec cuts the amount of data needed to adequately represent human speech sounds by half when

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